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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,107	10/06/2003	Sung Uk Moon	243563US90	1076
22850 7590 06/01/2009 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER FOTAKIS, ARISTOCRATIS	
			ART UNIT 2611	PAPER NUMBER
			NOTIFICATION DATE 06/01/2009	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the claim limitation of "a second radio station configured to carry out the multicast communication with **a second mobile station belonging to the specific multicast group**" must be shown or the feature(s) canceled from the claim(s) (*Please see more below on the Response to Arguments*). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

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the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1 – 9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The amended/added limitation “*the first radio station comprises: a communication quality acquirer.....acquire a communication quality of a signal transmitted from the second radio station to the second mobile station*” in lines 11 - 15 is not described anywhere in the specification (*Please see more below on the Response to Arguments*).

Claims 1 – 9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to

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which it pertains, or with which it is most nearly connected, to make and/or use the invention. The claims were amended to recite the limitations of “*a second radio station configured to carry out the multicast communication with a second mobile station belonging to the specific multicast group.*” In lines 5 – 6 and “*the first radio station comprises: a communication quality acquirer configured to acquire the communication quality from the first mobile belonging to the specific multicast group, acquire a communication quality of a signal transmitted from the second radio station to the second mobile station belonging to the specific multicast group, and select the lowest communication quality from among the acquired communication qualities*” in lines 11 – 15 of claim 1. By reviewing the specification, Fig.2 shows a communication system for carrying out multicast communications. It shows a first radio station 100a configured to carry out multicast communication with a first mobile station 200a belonging to a specific multicast group and a second radio station 100b configured to carry out the multicast communication with a second mobile station 200b belonging to another specific multicast group. According to applicant’s disclosure, radio station comprises of a communication acquirer configured to acquire the communication quality from the first mobile belonging to the specific multicast group and any other mobile stations belonging to the specific multicast group or any mobile stations joining the specific multicast group. The specification does not provide any disclosure of the communication quality acquirer of the first radio station acquiring a **communication quality of a signal transmitted from the second radio station to the second mobile station** belonging to the specific multicast group. There was no guidance in the specification to allow of one of skill in the

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art to understand why would the communication quality acquirer of the first radio station would need the quality feedback information of a signal transmitted from the second radio station to the second mobile station when the second mobile station is joining the specific multicast group of the first radio station. Shouldn't the first radio station acquire a communication quality of a signal transmitted from the first radio station to the second mobile station belonging to the specific multicast group? Therefore, it would be unpredictable to practice Applicant's claimed invention and therefore require an undue amount of experimentation to make and use the claimed invention (Please see more below on the Response to Arguments).

Response to Arguments

Applicant's arguments filed April 20, 2009 have been fully considered but they are not persuasive.

Applicants submit that Figures 1 and 2 and the specification disclose and show of "a second radio station configured to carry out the multicast communication with *a second mobile station belonging to **the** specific multicast group*".

Examiner submits that multicast communication is carried by a radio station and a plurality of mobile stations (as defined in Paragraph 0003 of the Application). Therefore, radio station 100a and mobile station 200a carry out multicast communication and the mobile station belongs to a first multicast group. Radio station 100d and mobile station

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200f carry out another multicast communication and the mobile station 200f belongs to a second multicast group. The figures only show *a second mobile station belonging to a **different** multicast group.*

Applicants submit that the disclosure is enabled and recites of “*the first radio station comprises: a communication quality acquirer configured to acquire the communication quality from the first mobile station each of the plurality of mobile stations belonging to the specific multicast group, acquire a communication quality of a signal transmitted from **the second** radio station to **the second** mobile station belonging to **the** specific multicast group*”.

Examiner submits that the specification and the figures only show of the **first** radio station comprising a communication quality acquirer configured to acquire the communication quality from the **first** mobile station each of the plurality of mobile stations belonging to the specific multicast group. The specific multicast group as discussed is a first multicast group that carry out multicast communications between the first radio station and the first mobile station. A second multicast group would carry out multicast communications between the second radio station and the second mobile station. As discussed before, the specification does not disclose of *the first radio station comprising: a communication quality acquirer configured to acquire the communication quality of a signal transmitted from **the second** radio station to **the second** mobile station belonging to **the** specific multicast group*”. Also one of ordinary skilled in the art would have not understood why would the communication quality acquirer of the first

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radio station would need the quality feedback information of a signal transmitted from the **second** radio station to the second mobile station when the second mobile station belongs to a different (second) multicast group or even if it is joining the first multicast group of the first radio station in order to carry out multicast communication for the first multicast group.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARISTOCRATIS FOTAKIS whose telephone number is (571)270-1206. The examiner can normally be reached on Monday - Thursday 6:30 - 4.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Aristocratis Fotakis/

Examiner, Art Unit 2611

/Chieh M Fan/

Supervisory Patent Examiner, Art Unit 2611